

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Timothy Barry Sercombe,)	Attorney Docket No.: USA.301-1
Graham Barry Schaffer, Kenneth J.)	
Newell, Kris Alan Schmidt)	
Title: INFILTRATED ALUMINUM)	Express Mail Label No.: EV233757972US
PREFORMS)	
Prior Application Group Art Unit: 1725)	Prior Application Examiner: Ing Hour Lin
Date Filed: March 15, 2004)	Customer No.: 022514

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Without admission of prior art effect, Applicants call the Examiner's attention to the references listed on the attached form PTO-1449 pursuant to 37 C.F.R. §1.56 and §1.98. This Information Disclosure Statement is being submitted prior to the receipt of a first Office Action pursuant to 37 C.F.R. §1.97(b)(3).

The following references are hereby made of record:

1. U.S. Patent No. 4,828,008 is made of record.
2. U.S. Patent No. 4,863,538 is made of record.
3. U.S. Patent No. 5,020,584 is made of record.
4. U.S. Patent No. 6,416,850 is made of record.
5. Lee, Kon Bae and Kwon, Hoon, "Fabrication and Characteristics of

AA6061/Si₃N₄ Composite by the Pressureless Infiltration Technique," Metallurgical and Materials Transactions A, Vol. 30A, November 1999, pp. 2999-3007.

6. Sercombe, T.B. and Schaffer, G.B., "Sintering Development for Free Formed Maraging Steel," International Conference on Powder Metallurgy and Particulate Materials, Vancouver, Canada, July 1999.
7. Lumley, R.N. and Schaffer, G.B., "The Effect of Solubility and Particle Size on Liquid Phase Sintering," Scripta Materialia, Vol. 35, No. 5, 1996, pp. 589-595, Elsevier Science Ltd.
8. Lumley, R.N. and Schaffer, G.B., "The Effect of Additive Particle Size on the Mechanical Properties of Sintered Aluminum-Copper Alloys," Scripta Materialia, Vol. 39, No. 8, 1998, pp. 1089-1094, Elsevier Science Ltd.
9. English abstract only "Behavior of Magnesium Dissolved in the Surface of Aluminum Alloy Powders," J. Japan Inst. Metals, Vol. 63, No. 9, 1999, pp. 1191-1196.
10. "Analysis of tin behaviour on surface of rapidly solidified aluminium alloy powder particles during heating," Powder Metallurgy, 2001, Vol. 44 No. 3, pp. 253-259.
11. English synopsis only "Effect of Tin on Directly Nitriding Reaction of Rapidly Solidified Aluminum Alloy Powder," Journal of the Japan Society of Powder and Powder Metallurgy, Vol. 47, No. 1, pp. 42-46.

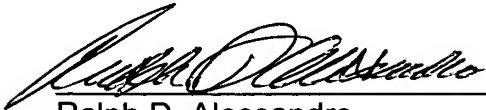
Copies of these references are included with this IDS.

The references included in this IDS form the complete set of references known to the Applicants which are believed to be relevant to the prosecution of the instant application. If additional references are discovered and thought to be relevant, they will be made of record in due course.

Respectfully submitted,
3D Systems, Inc.

Dated: March 15, 2004

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (Modified) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (37 CFR 1.98(b)) Page 1 of 1	ATTY. DOCKET NO. USA.301-1	SERIAL NO. To be assigned
	APPLICANT Timothy Barry Sercombe, Graham Barry Schaffer, Kenneth J. Newell, Kris Alan Schmidt	
	FILING DATE March , 2004	GROUP To be assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUB- CLASS	FILING DATE
	4,828,008	5/9/89	White et al.			
	4,863,538	9/5/89	Deckard			
	5,020,584	6/4/91	Aghajanian et al.			
	6,416,850	7/9/02	Bredt et al.			

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

DOCUMENT NUMBER	PUB. DATE	COUNTRY OR PATENT OFFICE	CLASS	SUB- CLASS	Translation YES NO
					I

OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication***)

	Lee, Kon Bae and Kwon, Hoon, "Fabrication and Characteristics of AA6061/Si ₃ N ₄ p Composite by the Pressureless Infiltration Technique," <u>Metallurgical and Materials Transactions A</u> , Vol. 30A, November 1999, pp. 2999-3007.
	Sercombe, T.B. and Schaffer, G.B., "Sintering Development for Free Formed Maraging Steel," <u>International Conference on Powder Metallurgy and Particulate Materials</u> , Vancouver, Canada, July 1999.
	Lumley, R.N. and Schaffer, G.B., "The Effect of Solubility and Particle Size on Liquid Phase Sintering," <u>Scripta Materialia</u> , Vol. 35, No. 5, 1996, pp. 589-595, Elsevier Science Ltd.
	Lumley, R.N. and Schaffer, G.B., "The Effect of Additive Particle Size on the Mechanical Properties of Sintered Aluminum-Copper Alloys," <u>Scripta Materialia</u> , Vol. 39, No. 8, 1998, pp. 1089-1094, Elsevier Science Ltd.
	"Behavior of Magnesium Dissolved in the Surface of Aluminum Alloy Powders," <u>J. Japan Inst. Metals</u> , Vol. 63, No. 9, 1999, pp. 1191-1196 (English abstract only).
	"Analysis of tin behaviour on surface of rapidly solidified aluminium alloy powder particles during heating," <u>Powder Metallurgy</u> , 2001, Vol. 44 No.3, pp. 253-259.
	English synopsis only, "Effect of Tin on directly Nitriding Reaction of Rapidly Solidified Aluminum alloy Powder," <u>Journal of the Japan Society of Powder and Powder Metallurgy</u> , Vol. 47, No. 1, pp. 42-46.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.